Region 3 GPRA Baseline RCRA Corrective Action Facility

Tyco Electronics (AMP Inc.)

Rural Delivery 2, Box 248B
Glen Rock, PA 17327-9550
Congressional District 19
EPA ID #: PAD041421223
Last Updated 12/31/2002

Current Progress at the Site

In mid-1984, AMP initiated an investigation to sample and analyze groundwater monitoring wells. Results of the groundwater investigation from November 1984 through September 1988 indicated the presence of Volatile Organic Compounds (VOCs) in the groundwater beneath the site. The investigation also concluded that migration of the contaminated groundwater had occurred from the MDL Building.

Since the initial investigation, AMP has undertaken remedial measures to remove groundwater and soil contamination at the site. AMP has excavated and removed contaminated soil. Furthermore, AMP has been pumping groundwater and treating it since 1985. At present, AMP continues to remediate groundwater contaminants to achieve Maximum Concentration Levels (MCLs), concentration levels defined by EPA to protect human health for drinking water. As a result of AMP's commitment to clean the site, the areas of groundwater contamination have reduced significantly. The former 24-acre groundwater plume has reduced to less than 0.75 acres.

The facility is currently testing a new method for acquiring groundwater samples called diffusion sampling. Diffusion sampling is a relatively new technology designed to use passive sampling techniques that eliminate the need for well purging. A diffusive-membrane capsule is filled with deionized distilled water, sealed, mounted in a suspension device, and lowered to a specified depth in a monitoring well. Over time the VOCs in the groundwater diffuse across the capsule membrane, and contaminant concentrations in the water inside the sampler attain equilibrium with the ambient groundwater. The diffusion bag sampler is subsequently removed from the well, and the water within the sampler is transferred to a sample container and submitted for analysis. The facility will tests this method for several quarters and will compare the results from the diffusion bag to historical data. If the results are similar, this method may be use for future groundwater monitoring. Below are pictures taken during the deployment and retrieval of the diffusion bags.

Figure 1: A stainless steel wire is attached to the diffusion bag and lowered into the well.

Figure 2: A weight is attached to the bottom of the bag to stabilize the deployment of the bag.

Figure 3: Retrieving the diffusion bag from the well.

Figure 4: The bag is cut open and the contents transferred into a sampling vial.

Groundwater Analytical Data Results

Tyco - Glen Rock, PA
Third Quarter Year 2002

Well ID	1,1,1-TCA	1,1,2-TCA	TCE	Total VOCs	VOC Running Avg.	Initial VOC Conc.	Long-Term Change (%)
MCL	**200**	**5.0**	**5.0**	---			---
AMP-2	1.3	**9**	4.6	16.2	15.9	1,461	-98.9
MW02	ND	ND	ND	ND	0.0	20	-100.0
MW-4L (POC)	ND	**13.5**	ND	13.5	11.0	548	-98.0
MW-5	ND	ND	ND	ND	0.28	33.5	-99.2
MW-6	ND	ND	ND	ND	0.25	5.8	-95.7
MW_8	ND	**5.3**	1.1	6.4	4.8	116	-95.8
MW-10 (POC)	ND	1.4	ND	1.4	1.0	110	-99.1
MW-12	ND	**20.4**	ND	20.4	15.6	574	-97.3
MW-13	ND	**8.7**	1.0	9.7	8.5	83	-89.8
MW-14	ND	2.9	2.2	5.1	6.5	91	-92.8
MW-15	1.6	**14.8**	2.7	21.5	28.2	105	-73.0
R-1	ND	**5.5**	ND	5.5	4.7	510	-99.1
R-2	1.0	2.6	ND	2.6	3.0	76.8	-96.1
R-3	1.7	**12.3**	1.8	15.8	14.1	595	-97.6
R-4	ND	2.0	ND	2.0	4.1	168	-97.6
R-5B (POC)	----	**61.4**	3.8	69.4	72.3	595	-87.8
R-6B	54	**ND**	ND	56.3	62	696	-91.1
R-7	----	**6.7**	ND	6.7	8.3	631	-98.7
Larkin Field (POC)	1.2	1.3	ND	2.5	3.4	56	-93.9

Notes:
Bold and shading indicates concentration greater than MCL.

MCL - EPA Safe Drinking Water Act Maximum Contaminant Level
ND - Not Detected above reporting limits
POC - Point of Compliance
(1) Total VOCs do not include concentrations of confirmed/suspected laboratory contaminants
(2) Running average calculated from four most recent sample results
(3) Long-term change calculated using running average from onset of sampling (ranging from 1984 to 1989) to present.
(4) Wells sampled semi-annually during 2nd and 4th quarters.

Site Description

The former AMP Inc. site is located in Glen Rock, York County, Pennsylvania and was in operation between 1950s -1990s. The facility consists of two buildings, the Material Development Laboratory (MDL) Building and the Plastics Building. In the past, AMP Inc. conducted research on contact adhesives and lubricants and manufactured injection-molded plastic and polyester parts used in connector systems and applications. Since the late 1990s AMP Inc. has ceased its operation at the site. In September 1999, AMP Inc. leased a portion of the property to M.A. Hanna, Inc. The new tenant will continue to manufacture polymers as AMP Inc. has done in the past. This lease agreement between AMP Inc. and M.A. Hanna, Inc. will not interfere with the on-going remediation at the site. In early 2000, Tyco Electronics acquired the site and is now the responsible party for the on-going remediation.

Site Responsibility

RCRA Corrective Action activities at this facility are being conducted under the direction of EPA Region 3 with assistance from the State.

Contaminants

The initial concern at the site was the migration of contaminated VOCs groundwater to the surrounding residential areas. Since the implementation of the groundwater extraction/treatment system, groundwater migration has been controlled and does not pose health and environmental risks to the surrounding communities.

Government Contact

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For more information about EPA's corrective action webpage, including Environmental Indicators, please visit our site at: www.epa.gov/reg3wcmd/correctiveaction.htm

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